

Collection of W. Rieby from Harding made 24  
 removed all

Lot nos. 257, 25a, Magnoketa sh 75 to 100 ft  
above base of  $\frac{1}{2}$  of 5th Sec. 20 T<sub>1</sub> S. 1. 22.

25. *Singula whitfieldi* Wm.  
*Singula* sp.  
*Platythraupis* sp. frag.  
*Lioparus* sp.  
*Sitta carolinensis*

*Ctenodonta pumila* Klw.  
*Ctenodonta secunda*  
*Cleidochora neglectus*.

25a. All specimens poorly preserved in conglomerate

Lingula sp.  
 1 elongated and thin, found  
 3 bags of 3 parts  
 2 Trilobites { Brachiolepis, small  
 2 or three Ostracods { large, fossil Calymene

*Geisonoceras*  
*Oathoceras sociale*  
*Rhinoceras* sp  
*Brachiacris surae* Hitz.

Loc 25 f. - Magnopita sh. - Probably 25 to 35 ft above the  
base NE  $\frac{1}{4}$  or NW  $\frac{1}{4}$  sec 8. Twp 5. R. 2 W.

Phosphatic layer with Lingula etc. 18 ft above  
hard calcareous shale just above water level

Practically nothing left

*Lingula melicoides* ?

back of Kelly pad.

Lat 166 - Magnetota whale - 4 ft above base -  
North center SE  $\frac{1}{4}$  sec 5, T12 S. R 2 W.

the fragment just changed

100

Bellevue

*Phacelae*

$$\begin{array}{r} 6 \\ 2 \\ \hline 12 \end{array}$$

$$\begin{array}{r} 5 \\ 2 \\ \hline 10 \end{array}$$

Lot no 38 - Magnoketa sh - 3 ft above base

SW  $\frac{1}{4}$  SW  $\frac{1}{4}$  sec. 29. T. 11 S. R. 2 W.

*Leptobolus occidentalis*  
*Lingula* aff. *obtusica* & *aequalis*.

*Orthis* sp.

*Amphysina* ceph.

*Amphysina* *ballulata* Savage.

*Vogdesia* sp.

*Ceratopsis robusta* Mr.

Ostracod small simple sp.

(6) Lot 171 Formation - Magnoketa a zone of weathered  
chert from 2 to 6 inches thick which lies uncon-  
formably upon Kimmurick and is separated  
from overlying Magnoketa shale by a sharp contact.

SE  $\frac{1}{4}$  NE  $\frac{1}{4}$  SE  $\frac{1}{4}$  sec. 17 T. 12 S. R. 2 W.

*Sowerbyella* - medium sized very fine lined, abundant  
cystid plates and columnals.

*Dalmanella*  $\frac{1}{2}$  in., rather finely striated

*Modiolodesma*

*Ctenodonta*, Prob  $\frac{1}{2}$  inch long.

*Lophospira* sp.

*Micromus*

*Cyclora*

*Cyrtospira*

*Orthoceras sociale*. This may belong to the  
native.

"The general aspect of this fauna suggests magnoketa  
rather than Kimmurick, which it should if these  
chert inclusions in this basal magnoketa bed  
are wholly residual." E. A.



Lot No 165 = Kimmswick ls - uppermost 4 inches -  
NW  $\frac{1}{4}$  NW  $\frac{1}{4}$  Sec. 32, T. 11 S, R. 2 W.

" upper Kimmswick ls. Essentially the same or at  
least includes same faunal elements as 168 + 172.

The fauna adds a number of species not observed  
in those collections viz:

(7) *Spermotoma major*  
*Remopleurides minnowiensis*  
*Crania aff. setigera*

*Batostoma*

The *Platystrophia* in all three collections  
is referred to *Carthenius species shippardi*,

(C & Furcata)

Lot No 7. - Kimmswick ls - upper few ft. same locus as above -  
NW  $\frac{1}{4}$  NW  $\frac{1}{4}$  sec. 32, T. 11 S, R. 2 W.

isognath

*Rhynchotrema* sp. of *siofieldi*

*Palaeostrophia* sp.

*Platystrophia*, long tongued

*Rafinesquina* of *deltoidea* *foerste*

*Calymene* & *gracilis* *Alcum*.

Lot no 172 - Kimmewick ls. uppermost 6 inches;  
nw  $\frac{1}{4}$  sw.  $\frac{1}{4}$  sec 28 T. 12 S. R. 2 W.

*Strophomena* 2 species

*Playfairia*

*Arverbyella* 2 sp.

(9) *Platystrophia* (long hinged)

*Rhynchotrema*? (cf. *typ. Trenton* species)

*Streptelasma corniculum*

*Ceraurus*

*Illaenus* cf. *americanus*

Thick rounded columnals.

---

Lot no 170 - Kimmewick ls. - uppermost 8 inches -  
N  $\frac{1}{4}$  E  $\frac{1}{4}$  sec. 17, T. 12 S Range 2 W.

Essentially same horizon and fauna as 165, 167, 168 & 172.

adds a good specimen of the long-hinged *Strophomena*  
of 168 which form Joerste figures in his Kimmewick  
and Platteau ls. paper (1920) as *S. incurvata*

also *Glyptorthis* aff. *insculpta*

*Linorthis* aff. *subquadrata*

*Isotelus* aff. *platycephalus*

*Ceraurus* sp. = the one described and referred by  
Joerste to *C. bispinosa* Raymond.

*Echaropora* cf. *subrecta*



Lot No 168. Kimmewick ls. - from  $\frac{1}{2}$  to 1 foot below  
top - SE  $\frac{1}{4}$  S E  $\frac{1}{4}$  sec. 8. T. 12 S. R. 2 W.

Same fauna as 172. Adds two other species

*Strophomena* - one like *fluctuosa*

(11) *Parastrophia* cf *scotfieldi*

*Parastrophia* " *rotundiformis* (w \_\_\_\_\_)

*Rhynchotrema* cf *inerebescens*

---

No 167 L. - Kimmewick ls -  $\frac{1}{2}$  ft below top. N center  
SE  $\frac{1}{4}$  sec. 5, T. 12 S., R 2 W. up. Kimmewick

*Vanuxemia*

(12) *Cyrtodonta*

*Sinuities*

*Tetranota obsoleta*

Large *Playfairia* looking much like *Raf. rana*

167a. Upper Kimmewick. 3 ft below Top. Same  
loc as 167 L.

Loc same fossils as above in 167 L.

(13)

Lot no 81. 1 to 2 ft below top Kinnearick.  $NE \frac{1}{4}$   $NE \frac{1}{4}$   
sec 5 T12 R. R. 2 W.

(14) *Rhynchotrema capax*, poor specimen

*Plectambonites* sp

*Ilacmus* sp

*Ilacmus* sp

Lot 43 = Kinnearick ls. Probably from uppermost 20 ft  
of formation, S. center  $SE \frac{1}{4}$  sec 32 T11 S R2 W.

(15) Coral) *Streptelasma*

*Rafinesquina* cf *nasuta*

*Plectambonites*

*Platystrophia*

*Bryozoa*

Fragments of *Receptaculites*

*Ilacmus*

*Pterygometopus*

*Ostracoda*

Lot 40 - Prof. about 10-20 ft below top of  
Kimmerick ls. Center NW  $\frac{1}{4}$  section 32  
T. 11 S. R. 2 W.

(16)

*Streptaranea*

*Calonequeia nasuta*

*Clidophorus neglectus*

*Plectambonites*?

Lot no 82. = 20 to 25 ft below top Kimmerick ls.,  
NE  $\frac{1}{4}$  SE  $\frac{1}{4}$  sec 5 T. 12 S. R. 2 W.

(17)

*Pholidops*?

*Plectambonites*

*Strophomena*

*Calonequeia*

*Istotelus*

*Ostracods* (few)



Lot No 41. = Probably from near middle of  
Kimmerwick formation.

S. E  $\frac{1}{4}$  S. E  $\frac{1}{4}$  sec 31. T. 115. R. 2 W.

Mostly fragmentary small lot.

3 Bryozoa.

Strophomena frag.

(18) Two or three frags. of other brachs.

1 Ostracod.

Lot No 3a, Lower or middle part of Kimmerwick ls.

N. E  $\frac{1}{4}$  NW.  $\frac{1}{4}$  sec. 17 T. 12 S. R. 2 W.

1 Bry. frag.

19 Dalmanella prob 2 sp.

Orthophragma sp.

Frag of Pterygometopus pygid.



Lot No 88 & 175 = Iron basal foot of Kimmewick ls  
NE  $\frac{1}{4}$  NE  $\frac{1}{4}$  sec 32. T 12 S. R. 2 W.

Both 88 & 175 from same loc. and same beds.

Eight ft above coll 173 and 13 ft above Coll 174

Coral Columnaria sp.  
~~Streptelasma~~  
Bryozoa 3. sp.

(26)

Orthis

Dalmanella

Large Plectambonites

Rafinesquina sp.

---

Lot No 8 - 1 foot below top of Decorah member  
of Platteau formation - SE  $\frac{1}{4}$  of NE  $\frac{1}{4}$  sec 6.  
T 12 S. R. 2 W.

Strophomena cf. incurvata  
~~Strophomena~~ ~~pygmaea~~ nicolleti.

(21)

Homotoma

2 other graptolites

Ceraurus aff. hispidosa

~~Pteronotus~~  
Pteronotus sp. frag.

Helminthospora

Lot No 2 = 4 ft below top of Secorah member  
of Platten formation SE  $\frac{1}{4}$  sec 19

T. 12 S. R. 2 W.

(57) *Salmanella*  
*Strophomena*  
*Pteridopoda*

East (poor section only)

*Orthis*

*Ceraurus* sp. cf. *bispinatus*

*Clarkia* cf. *tuberculatus* in Biology

Lot no 26a = Secorah(?) member of Platten formation -  
(origin unknown) NW  $\frac{1}{4}$  SW  $\frac{1}{4}$  sec 17 T. 12 S. R. 2 W.

(23) Fragmentary pieces of *Liospira*.

"Auburn Chert Horizon" Era

Lot no 173 = (from base) 1 ft of Secorah member of  
Platten (?) Center NE  $\frac{1}{4}$  sec. 32. T. 12 S. R. 2 W.

(24) *Bryozoa* *Praxapora* sp.

*Zygospira* cf. *accoliti*.

*Rafinesquina* sp.

*Pteropod* frag. *Ctenodonta* sp.

*Stellaria*

*Stomatopoda* cf. *aperta* in

Two or three other species. Tabern.

Lot 174 = 5 ft below top Platten ls. Center NE  $\frac{1}{4}$   
sec. 32, T12S. R. 2W. (5 ft below Decor-  
ah (?) chocolate brown beds (173))

(25) "High Clatin - and a question whether it  
should not be called upper Black River rather  
than Late Louisville" Eou  
Crinoid columnals

Bry {

*Orthis*  
*Strophomena*  
*Leptæna*  
*Zygospira*  
*Pleurodema* sp.

Numerous.

*Wormatoma cf. gracilis*

*Pterygomatopis*

Free cheek. long, slender, suggests *Barthyrus*



Lot 89. About 15 ft below top Platten ls.  
NW  $\frac{1}{4}$  NE  $\frac{1}{4}$  sec 32 T12 S. R. 2 W.

Rafinesquina sp.  
" sp 2.?

Zygospira sp.  
P. Pionodelina sp.  
Lospira sp.  
Kasto frag.

Lot No 26. - about 15 ft below top of Platten ls.  
NE  $\frac{1}{4}$  NE  $\frac{1}{4}$  sec. 7 T. 12 S. R. 2 W.

Zygospira sp.  
Strophomena sp.  
Ostracod punctate, globose

No. Lot. 8a Platten<sup>(?)</sup> ls. horizon unknown. SE  $\frac{1}{4}$  SE  $\frac{1}{4}$   
sec 7. T. 12 S. R. 2 W.  
Poor small lot. three pieces.  
Unnid columnals.  
Orthoceras undet.

86 = Probably about middle Platten ls.  
N E  $\frac{1}{4}$  NW  $\frac{1}{4}$  Sec 32. T 12 S. R. 2 W.

Indeterminable lot containing  
sections of

Gastropods.

Prot. Clensdonta

Lepiditica.

Lithology, Platten ls.

Lot no 5 = 4 ft above base of Platten ls. center  
NW  $\frac{1}{4}$

Rafinesquina

Droptomena

Lobmanella

Orthis

Lepiditica

Lot No 4 = 3 to 7 ft above base Platten ls. E. quarter  
corner sec 19. T. 12 S. R. 2 W.

Droptomena

Lobospira?

Bathyrus sp

Lepiditica sp.

Hardin-Bruce's Quad sec.

I - 71 - Magnoketa - N.E. N.E. sec 5 T. 12 S.

R 2 W. Granular phosphatic bed with  
abundant macro-fossils.

*Cleidophorus neglectus*

*Bellerophon*  
Several minute low spined gastropods

*Hormotoma cf. gracilis*.

*Orthoceras sociale*

Same horizon as 166.